

UNIQUENESS SETS FOR FOURIER SERIES

ASHOT VAGHARSHAKYAN

Abstract. This article explores some of the sets of uniqueness for Fourier series. The case, when these sets have zero Lebesgue measure is considered.

Mathematics subject classification (2010): 42A63.

Keywords and phrases: Fourier series; Fourier coefficients; uniqueness sets; exceptional sets.

REFERENCES

- [1] N. BARI, *Trigonometric series*, Moscow (Russian), 1961.
- [2] A. BROMAN, *On two classes of trigonometrical series*, Thesis, University of Uppsala, Uppsala, 1947.
- [3] L. CARLESON, *Selected Problems on Exceptional Sets*, Princeton University Press, New Jersey, 1967.
- [4] A. VAGHARSHAKYAN, *A theorem on the representation of harmonic functions*, (Russian) Izv. Nats. Akad. Nauk Armenii Mat. **28** (1993), no. 4, 87–91 (1995); translation in J. Contemp. Math. Anal. **28** (1993), no. 4, 76–79.
- [5] A. VAGHARSHAKYAN, *On the uniqueness problem for Fourier series*, Real Analysis Exchanges vol. **29** (2), 2003/2004.
- [6] J.-P. KAHANE, *Series de Fourier absolument convergentes*, Springer-Verlag, Berlin-Heidelberg-New York, 1970.
- [7] A. ZYGMUND, *Contribution a l'unisite du developpement trigonométrique*, MZ, **24** (1926).